

ABSTRACTAn Instant Gearless Drive

5 A head portion (2) and handle portion (3) pivot about an axis pin (6).
The head portion (2) is first biased in the required drive direction (D) bias
being sustained by a resilient cam (5) being to one side of a clamping shoe (7)
centre line (7a). When torque is applied in the drive direction (D) to a levered
end (3a) of the handle portion the resultant force acts through the pertinent
10 cam (3c) on levered end (3b) of the handle portion forcing the clamping shoe
(7) inwards locking the inner surface (2b) and clamping surface (7c) onto the
drive portion (4) of a socket (8) or circular drive (9) in order to operate a
fastener (10). A spring cam (5) takes up any play between the handle portion
(3) head portion (2) axis pin (6) clamping shoe (7) and drive portion (4) yet
15 compresses sufficiently to allow the instant gearless drive (1) relative to the
drive portion (4) to be repositioned (R). The clamping shoe (7) is a sliding fit
within the shoe slot (2c) can be conveniently operated against the resilient
cam (5) by a release pin (11) within an appropriate slot (2e).